

MSHA Training Summit

April 29, 2015

Agenda

- 12:30 pm - - Jeff Duncan
Welcome and Introduction of A/S Main**
- 12:32 pm - - Joe Main
Opening Remarks**
- 12:40 pm - - Marcus Smith
Review of Coal Fatalities
Review of Coal “Near Misses”**
- 12:50 pm - - Larry Trainor
Review of M/NM Fatalities
Review of M/NM “Near Misses”**
- 1:00 pm - - Jeff Duncan
Introduction
Sam Scribe President Joseph A. Holmes
Safety Association
Brief Update on Holmes Safety and the Joint
National Conference**
- 1:10 pm - - Jeff Duncan
Update on EFSMS outreach to mining
associations, labor and other stakeholders
New material on MSHA’s Trainers Page**
- 1:15 pm - - Questions???**
- 1:28 pm - - Joe Main
Closing Remarks**

Coal 1st Quarter

Marcus Smith

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Fatalities 1st Quarter 2015

4 Fatalities

- | | | |
|-----------------|-------------------|---------------|
| • Pennsylvania | Machinery | (Underground) |
| • Pennsylvania | Fall of Roof/Back | (Underground) |
| • West Virginia | Fall of Face/Rib | (Underground) |
| • Virginia | Fall of Face/Rib | (Underground) |

Fatal Accidents By Occupation

1st Quarter 2015

- Continuous Mining Machine Operator – 1
- Roof Bolter Helper - 1
- Foreman or Supervisor – 2

2015 Fatal Accidents

- 4 Underground Mines in 1st Quarter
- Classifications:
 - Machinery – 1
 - Fall of Roof - 1
 - Fall of Face/Rib– 2

COAL MINE FATALITY – On Wednesday, January 28, 2015, a 43 year-old continuous mining machine operator with 10 years of mining experience was killed when he was pinned between the conveyor boom of a remote controlled continuous mining machine and a coal rib. The victim was operating the continuous mining machine from a remote position in the entry and was preparing for the next mining cycle when the accident occurred.



COAL MINE FATALITY – On February 20, 2015, a 29 year-old roof bolter helper with 3 years and 48 weeks of mining experience was killed when a piece of rock approximately 3 feet wide, 11½ feet long, and 3 to 16 inches thick fell and pinned him against the top of the drill canopy of a roof bolting machine. The roof bolting machine was positioned to install the next row of permanent supports when the accident occurred.



COAL MINE FATALITY – On March 8, 2015, a 45 year old assistant longwall coordinator with twelve years of experience was killed while working on a longwall section. The victim was shoveling loose material between the longwall face and the pan line when a large piece of rock, 12 feet long by 5 feet wide by 1 foot thick, fell from the face and struck him.



COAL MINE FATALITY – On Monday, March 16, 2015, a 34 year-old section foreman with 10 years of mining experience was killed when a coal/rock rib approximately 90 inches long, 45 inches high, and 15 to 18 inches thick fell and pinned him against the side of a shuttle car.



NEAR MISSES and NON-FATAL ACCIDENTS

Coal Mine Accidents: From January 2000 to May 2014, there were 24 fatalities that occurred from retreat mining. These fatalities can be prevented by following the mine's approved roof control plan and the pillar extraction portion of the plan.



Coal Mine Accident - A miner was operating a battery – powered scoop. He had taken a load of trash off the section and reached outside the scoop to pick up a piece of plastic on the mine floor. When the miner reached outside the cab, his foot slipped off the brake and hit the accelerator. His arm and hand were pinched between the coal rib and scoop, causing him to lose part of his hand.



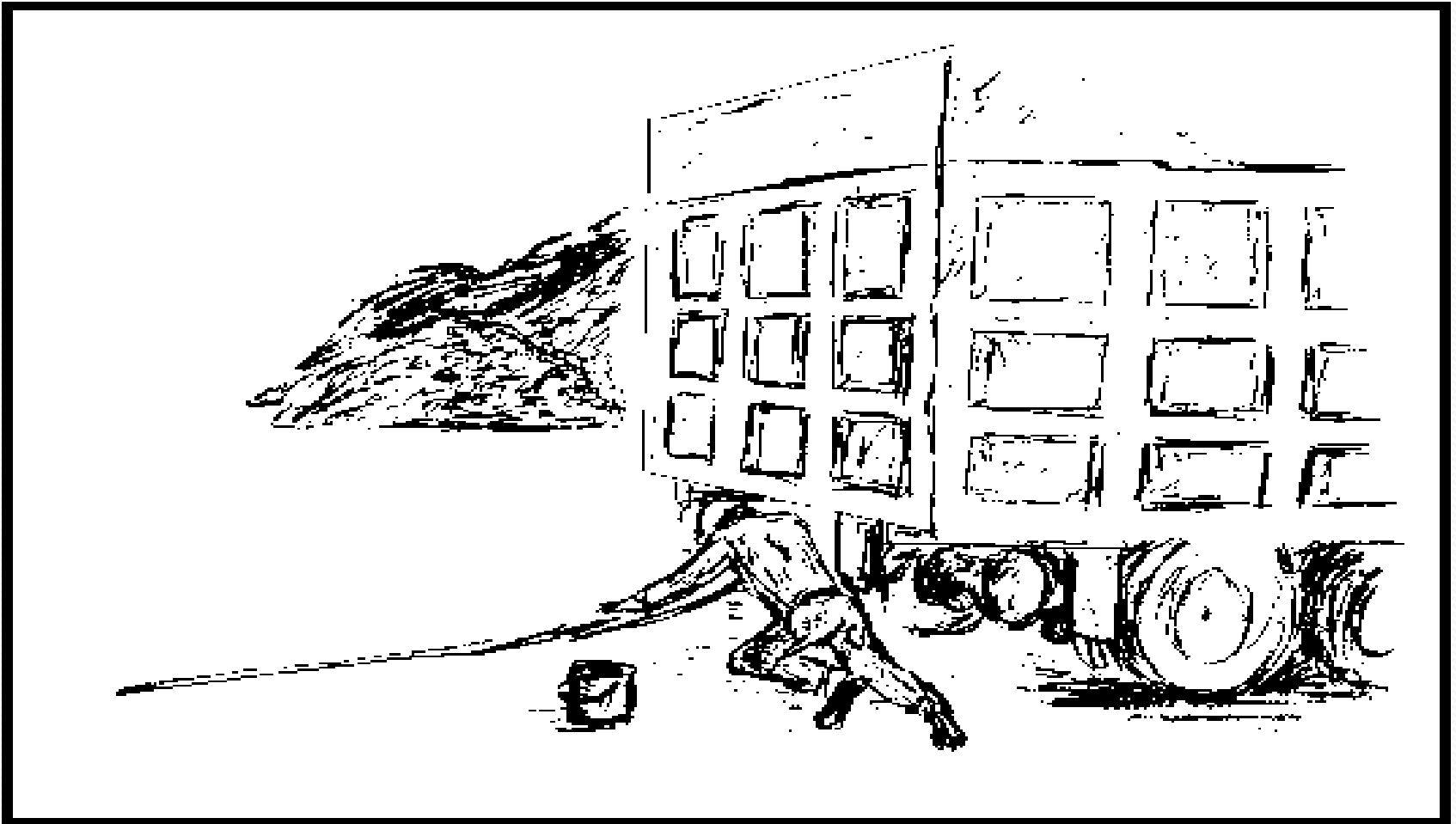
Coal Mine Near Miss - A coal mine was issued two 107(a) orders for excessive methane in the bleeders. Methane ignitions have the potential to cause serious injuries and fatalities. These ignitions can cause destructive explosions, especially when rock dust is not applied adequately. Mine operators and miners need to be vigilant for problems that can lead to dangerous ignitions and always assure that the mine is well ventilated.



Coal Mine Accident – The driver of a Caterpillar 785B haul truck was backing up a 300 foot stockpile ramp with a 21 percent grade to a feed hopper. The unconsolidated bank broke loose and the truck rolled off the ramp approximately 25 feet down to the lower level and landed upside down. The truck driver was wearing his seatbelt and sustained back and hip injuries.



Coal Mine Accident – A miner walked behind a truck being operated by a contract employee. The truck struck the victim, knocking him down. The rear wheels came to rest against the victim, but luckily did not run completely over him. The victim was transported to a local hospital, received surgery and placed in traction.



Best Practices

- Communicate your movements with coworkers
- Always wear Seat Belts when operating mobile equipment
- Never extend body parts outside the cabs of moving equipment
- Conduct thorough examinations of the roof, face, and ribs immediately before work is performed and thereafter as conditions dictate
- Install effective mine ventilation controls and assure that all controls are well-maintained
- Task train all miners in job specifics prior to beginning their work activities

Metal and Nonmetal

1st Quarter

Larry Trainor

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Fatal Accidents – 2015

- Underground Mines – 2
- Surface Mines – 4
- Contractors – 2
- Classifications
 - Powered Haulage – 1
 - Falling/Sliding Material – 1
 - Machinery – 2
 - Fall of Roof or Back – 1
 - Hoisting – 1

Fatal Accidents by State - 2015

- California - 1
- Florida - 1
- Missouri - 1
- Nebraska - 1
- Nevada - 1
- Pennsylvania - 1

Fatal Accidents By Commodity - 2015

- Sand & Gravel - 1
- Dimension Sandstone - 1
- Phosphate - 1
- Lead Ore - 1
- Gold - 1
- Common Sand - 1

Fatal Accidents By Occupation - 2015

- Supervisor – 2
- Truck Driver – 1
- Miner/Laborer – 1
- Scaler – 1
- Heavy Equipment Operator – 1

On January 8, 2015, a 63-year old sales manager with 11 years of experience was killed at a sand and gravel mine. He was installing new screen panels in the B tower screen. The feeder box pivoted, pinning him between the box and the rear support beam of the screen deck.



On January 11, 2015, a 53-year old contract shaft miner with 35 years of experience was killed at an underground gold mine. The victim was positioned on a work platform on top of a skip traveling up the ventilation shaft. He struck a steel cross member on a beam in the shaft.



On January 21, 2015, a 54-year old miner (ground support) with 4 years of experience was killed at an underground lead mine. The victim was operating a mechanical scaler in an intersection when a roof fall (55 feet long x 20 feet wide x 6 feet thick) occurred, covering the machine.



On January 26, 2015, a 57-year old heavy equipment operator with 36 years of experience was seriously injured at a phosphate mine. He was operating an excavator near a water filled ditch when the excavator tipped forward and went in the water, submerging the cab. The victim was removed from the cab and transported to a hospital where he died later that day.



On March 17, 2015, a 44-year old haul truck driver with 4 days of experience was injured at a dredge operation. He was operating a loaded articulated haul truck along an elevated roadway next to a dredge pond. After traveling about 125 yards from the loading point, the haul truck drifted into the water. The victim was removed from the truck, transported to a hospital, and then transferred to a trauma center where he died on March 19, 2015.



On March 23, 2015, a 48-year old mine operator with 20 years of experience was killed at a dimension stone operation. The victim was operating a walk-behind masonry saw, positioned between the saw and a ledge, when he tripped and fell. The victim and the saw went over the 4½-foot ledge, resulting in the saw falling on him.



NEAR MISSES and NON-FATAL ACCIDENTS

Surface Gold Mine – The driver of this water truck lost control of the truck and narrowly escaped serious injury when the truck over turned and caught fire. He was wearing a seat belt at the time of the accident and walked away unharmed.



Lime Operation – A miner was operating a walk-behind skid-steer loader. The miner was cleaning material that had accumulated under a screen deck when the skid-steer loader pinned him between the machine and an I-beam support. The victim was able to tram the skid-steer loader forward to free himself and seek help. A coworker found him and called 9-1-1 for emergency assistance. He was transported by life-flight helicopter to a local hospital.



Lime Facility Operation- Two contract employees were positioned on man-lifts approximately 100 feet above ground, making relief cuts on the main beams of a Bridge Crane. The Bridge Crane was being dismantled and these cuts were being made to weaken the structure, allowing for complete demolition with explosives a few days later. As the cuts were being made, the structure failed and both persons, who were wearing fall protection, were ejected from the man lifts. One person's fall protection lanyard sheared off and he landed on the structure where he was rescued by local EMS. Both persons were treated and released the same day with minor injuries.



Sand & Gravel Mine - A miner unfastened a guard for the feed belt conveyor on the portable Power Screen plant to check the bearings. The miner did not shut off the belt conveyor and his left hand became entangled between the head pulley and the frame of the belt conveyor. The victim was transported to a hospital where his hand was amputated.



Best Practices

- Provide Training, including Task Training
- Conduct Workplace Examinations
- Discuss all possible hazards with mobile equipment operators
- Establish Safe Traffic Patterns
- Maintain Mobile Equipment
- Frequently review, retrain, and discuss working in restricted or limited access areas

Joseph A Holmes & Mine Rescue 2015 National Meeting and Training

Sam Scribe

June 9-11, 2015 Virginia Beach, VA

Date & Hotel

June 9-11, 2015

Holiday Inn & Suites North Beach

3900 Atlantic Avenue

Virginia Beach, VA 23451

757-428-1711

Rate: \$145.00 per night plus \$21.30 taxes

GROUP code: HSM

What's going on?

- Workshops
 - Task training
 - Mine rescue & recovery
 - Electrical safety
 - Accident prevention
 - Supervisors and safety
 - Holmes mine rescue
 - Crane safety
 - Mine rescue contests
 - Self contained self rescuer
 - And so many more.....

Business meetings

Tuesday, June 9, 2010

10:00 am – 11:30 am

JAHSA Executive Committee Annual Meeting

Wednesday, June 10, 2015

4:00 pm – 5:00 pm

HMRA Executive Committee Annual Meeting

Thursday, June 11, 2015

2:15 pm

JAHSA General Meeting

Registration Information

- On-site registration \$300
- Spouse/guest registration (includes all social functions) \$150

NO Refunds or cancellations after may 29, 2015

Pay by check/money order:

Joseph A Holmes Association

Mail to : A015 registration

- Advance registration fee (made by may 15, 2015)
\$250
- Al Simonson, 2222 Clare Drive, North Mankato,
MN 56003

Need more information?

- Contacts:
 - Al Simonson
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Education, Policy, & Development (EPD)

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Mining Stakeholders/Associations Outreach

- Collaborative effort between EPD and Stakeholders
- “Stakeholders” - primarily aggregate associations, mining associations, labor organizations, and grantees
- Partnering to leverage collective training expertise and resources
- Combining efforts for more effective training for miners
- Face to Face meetings with receptive stakeholders
 - Identify training needs
 - Best Practices
 - Opportunities for EPD

Mining Stakeholders/Associations

Outreach continued....

- Partnering for new training materials applicable to current mining methods
 - EX – Videos
 - Partnership to assist with the script and provide staff, mine access and mining equipment
- Current Events
 - Video partnership with the Academy “AV” crew, EFSMS, and the Maine Aggregates Association
 - Purpose
 - Develop training videos identified by the Association
 - Distributed broadly for training aggregate miners throughout the nation

New Material for Trainer's Page

- Small Mine Handbook


This book was developed as a compliance assistance tool for small mine operators.

This tool provides for the following:

- Improving small mine health and safety programs
- MSHA required records
- Training plan development
- Accident and illness prevention methods
- Part 50 reporting and record keeping practices
- Emergency preparedness and response
- EFSMS and State Grant contact information

Trainer's Page

<http://www.msha.gov/training>



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Training is an essential part of MSHA's mission to keep miners safe and healthy. Our goal is to help the mining industry develop high-quality training programs, and to strengthen and modernize training through collaboration with industry stakeholders. Federal law requires that all miners receive basic and annual refresher training, and that all mine operators maintain an effective training plan. MSHA provides materials, guidance, and hands-on assistance to help miners and operators meet their training obligations and more. We have gathered many of our materials on this page for your convenience, and will add to them over time.

Questions? Comments? Materials to share? Please contact us at mshatraining@dol.gov for assistance or to suggest improvements to the training page.

Part 48 or Part 46? [Learn what it means here.](#)

Spotlight	Develop a Training Plan
<div><div>27 JAN</div><div>Materials for quarterly conference call Slideshow with presentations on new training materials, and fatal accidents and near-misses from Coal and Metal/Nonmetal</div></div> <div><div>14 NOV</div><div>Recording of 3rd quarter conference call Listen to a one-hour MSHA call with trainers, held Nov. 13, regarding recent fatalities and training resources</div></div> <div><div>13 NOV</div><div>Materials for 3rd quarter conference call Slideshows on Coal fatalities, MNM fatalities, and EPD presentation on task training and adult learning.</div></div>	<p>The following resources may be useful in developing training plans for Part 46 and Part 48 mines. If this is your first time creating a training plan, we highly recommend getting in touch with Educational Field and Small Mine Services for assistance. You can also review the most current regulations set forth in 30 CFR Part 46 and Part 48. The official regulations outline the required components of an approved training plan, the types of training programs that must be included in a plan, and appropriate record-keeping procedures.</p> <p>Review the most current regulations: Part 46 Part 48</p> <p>MSHA Training Plan Advisor Provides guidance in developing federally required training plans for Part 46 and Part 48 mines, and allows plans to be submitted online.</p> <p>MSHA Program Policy Manual Provides assistance in interpreting and clarifying the various training requirements outlined in 30 CFR Part 46 and Part 48.</p> <p>Part 46 Training Plan Starter Kit also En Español</p>
Training Programs and Courses Academy Courses: Coal Metal/Nonmetal A catalog of 2014 & 2015 courses offered by the National Mine Health and Safety Academy State Grant Programs Training and resources to support mine safety and health	

Trainer's Page

<http://www.msha.gov/training>

Training Materials

Small Mine Handbook

A compliance assistance tool for small mine operators covering health and safety programs, training plan development, reporting practices, and more.

2014 TRAM Conference Presentations

Download PowerPoint presentations from the 2014 Training Resources Applied to Mining (TRAM) Conference

Training Videos

A large collection of videos covering health, safety and other mining-related topics

Best Practices Pocket Cards

Concise pocket cards outlining a range of health and safety best practices

Fatalgrams

Mining fatality summaries with associated best practices to help prevent similar incidents

Task Training

Concise guidelines for effective task training

Job Task Analysis Materials

Sample JTAs developed for dozens of tasks, for your customization

Health and Safety Alerts

Information on current and previous health, safety and equipment hazard alerts

MSHA Handbook Series

A variety of handbooks describing inspection procedures, education & training procedures and technical support procedures

NIOSH Training Page

National Mine Health and Safety Academy

Training and Resources Library

District Offices

Contact information and other district-specific resources for coal and metal/nonmetal mines



QUESTIONS???